GROUNDWATER ELEVATIONS
FORMER BATTERY PLANT, 1201 MAGNOLIA AVE
ANAHEIM, CALIFORNIA

Well ID	Date	Well Casing Elevation	Depth to Water	Groundwater Elevation
MW-1	8/3/2006	89.58	24.40	65.18
MW-2	8/3/2006	90.77	25.79	64.98
MW-3	8/3/2006	92.15	26.61	65.54
MW-4	8/3/2006	91.17	26.21	64.96
MW-5	8/3/2006	89.87	24.75	65.12
MW-6	8/3/2006	89.05	23.90	65.15
MW-7	8/3/2006	89.54	24.50	65.04
MW-8	8/3/2006	89.64	24.61	65.03
MW-8D	8/3/2006	89.48	24.47	65.01
MW-9	8/3/2006	89.77	24.82	64.95
MW-10	8/3/2006	86.84	22.05	64.79
MW-11	8/3/2006	86.60	21.69	64.91

TestAmerica DRILLING CORPORATION

DAILY WORK REPORT

1016 East Katella Ave.
Anaheim, CA 92805
(714) 939-6850

3620 Kurtz St.
San Diego, CA 92110
(619) 686-5800

WHD PROJECT NO.: 06-8360 | DATE: 7-7-06 | DAY: THUR

JOB LOCATION: ANAHEIM | CLIENT: HALEY + ALDRICH | JOB#:

HOURS START	HOURS STOP	DESCRIPTION OF WORK (Explain Reasons For All Down Time and Stand-By Time)	FOOTAGE DRILLED	DRILLING	TRAVEL TO/FROM JOB SITE	GROUT	OTHER CLEAN-UP DECON	STAND BY	NON CHARGEABLE DOWN TIME	NON CHARGEABLE SHOP TIME
		A.M. SHOP TIME								
700	730	TRAVEL TO JOB SITE			.5					
		H&S MEETING								
730	415	DEVELOP 6 WELLS					8.75			
415	445	TRAVEL FROM JOB SITE			.5					
		P.M. SHOP TIME								
		TOTAL CHARGEABLE RIG HOURS 8.75			1.0		8.75			

EQUIPMENT		RIG TYPE & NO. 5		MATERIALS/SUPPLIES	
FLATBED TRUCK #		MILEAGE ROUND TRIP			
DECON TRAILER #	V	COMPRESSOR/AIR EXC. TOOL			
GROUT PUMP/WHIRLY		HYDRO PUNCH # OF HOLES			
BOBCAT/FORKLIFT		CONTINUOUS SAMPLING FOOTAGE			
CONCRETE SAW # OF HOLES		SERVICE RUNS			
CONCRETE CORE # OF HOLES		HAND AUGER FOOTAGE			
BIT/REAMER WEAR		AIR VAC			

NAME	SIGNATURE	CONCRETE	SHOP HOURS AM	SHOP HOURS PM	DRILL HRS	TOTAL
BRUCE						

NO. OF CREW WITH CHARGEABLE PERDIEM		CHARGEABLE EXTRA LABOR HRS.	
DEPTH TO WATER		CHARGEABLE LEVEL B/C HRS.	

ITEM	QTY.	PVC-SS 1" /2" / 4" / 6"	QTY.
SAND		20 Ft. SCREEN	
READY MIX		10 Ft. SCREEN	
QUICK SET		5 Ft. SCREEN	
PORTLAND		20 Ft. BLANK	
BENTONITE GROUT		10 Ft. BLANK	
BENTONITE CHIPS		5 Ft. BLANK	
BENTONITE POWDER		SLIP CAPS	
BENTONITE PELLETS		THREADED CAPS	
ASPHALT PATCH		LOCKING CAPS	
WELL COVERS 8"/12"		HOLE COVER PLATES	
MONUMENT CASING		CONES/DELINEATORS	
BARRELS	5	TRAFFIC CONTROL	
WOOD PLUGS		PLASTIC SHEETING	
SAMPLE RINGS		SPARGE TIPS	
SIMUL-PROBE WATER			
SIMUL-PROBE GAS			

COMMENTS

(PLEASE COMPLETE EVALUATION FORM ON BACK)

1/00

WHITE - CLIENT YELLOW - FILE PINK - INVOICE GOLDENROD - TIMECARD

HALEY & ALDRICH
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UNDERGROUND
ENGINEERING &
ENVIRONMENTAL
SOLUTIONS
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Fax: 714.985.3433

GROUNDWATER SAMPLING LOG

PROJECT NAME: Delphi-Anaheim
PROJECT NO.: 32486
DATE: 2-3-06

WELL NO. HA-MW-5
SAMPLED BY:

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2		(inches)
DEPTH OF WELL	44.7 – 47.8 FINAL		(ft.)
DEPTH TO WATER		25.38	(ft.)
HEIGHT OF WATER COLUMN			(ft.)
CASING VOLUME*	Hgt. x	Gal./Ft. =	(gal)
PURGE VOLUME		x 3 =	(gal)
PRODUCT THICKNESS	—		(ft.)

WELL CONDITION:
WEATHER CONDITIONS:
PURGING AND SAMPLING EQUIPMENT:

PURGE DATA

Time	Purge Vol (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (uS/cm or S/m	Turbidity (NTUs)	DO (mg/L)	Temp. (F / C)	Sal. (%)	TDS (g/L)	ORP (mv)	Color	Odor
825	SOR&E											
840	BAIL	1.5 GAL										
920	PUMP											
931	3.0	2.0	8.80	1810	>1000		20.7					
935	4.0		8.86	1800	351		21.7					
940	5.0		8.92	1800	208		22.1					
943	5.5		8.93	1800	125		22.2					
947	STOP											

Sample No.	Sample Time	Analyses	Container	Quantity	NOTES:

ADDITIONAL INFORMATION:
TOC = Top of well casing
*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

Well Diameter	0.75	2	4	6
Gallons/foot	0.02	0.16	0.65	1.47

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GROUNDWATER SAMPLING LOG

PROJECT NAME: Delphi-Anaheim
PROJECT NO.: 32486
DATE: 2-3-06

WELL NO. HA-MW- 6
SAMPLED BY:

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2		(inches)
DEPTH OF WELL	44-6		(ft.)
DEPTH TO WATER		7.48	(ft.)
HEIGHT OF WATER COLUMN			(ft.)
CASING VOLUME*	Hgt. x	Gal./Ft. =	(gal)
PURGE VOLUME		x 3 =	(gal)
PRODUCT THICKNESS			(ft.)

WELL CONDITION:
WEATHER CONDITIONS:
PURGING AND SAMPLING EQUIPMENT:

PURGE DATA

Time	Purge Vol (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (uS/cm or S/m	Turbidity (NTUs)	DO (mg/L)	Temp. (F / C)	Sal. (%)	TDS (g/L)	ORP (mv)	Color	Odor
1202	SURGE											
1215	BAIL											
1230	PUMP											
1245	10	2.0	8.84	1510	>1000		20.4					
1255	20		8.92	1500	708		21.0					
1256	30	↓	8.99	1490	302		21.0					
1302	40	↓	9.02	1490	751		21.2					
1310	55		9.04	1490	32.5		21.2	STOP				

Sample No.	Sample Time	Analyses	Container	Quantity	NOTES:

ADDITIONAL INFORMATION:
TOC = Top of well casing
*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

Well Diameter	0.75	2	4	6
Gallons/foot	0.02	0.16	0.65	1.47

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GROUNDWATER SAMPLING LOG

PROJECT NAME:	Delphi-Anaheim	WELL NO.	HA-MW- 7
PROJECT NO.:	32486	SAMPLED BY:	
DATE:			

WELL INFORMATION		
TOP OF CASING ELEV.		(ft.)
WELL DIAMETER	2	(inches)
DEPTH OF WELL	53.7	(ft.)
DEPTH TO WATER	21.09	(ft.)
HEIGHT OF WATER COLUMN		(ft.)
CASING VOLUME*	Hgt. x Gal./Ft. =	(gal)
PURGE VOLUME	x 3 =	(gal)
PRODUCT THICKNESS		(ft.)

WELL CONDITION: [illegible]

WEATHER CONDITIONS:

PURGING AND SAMPLING EQUIPMENT:

PURGE DATA												
Time	Purge Vol (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (uS/cm or S/m	Turbidity (NTUs)	DO (mg/L)	Temp. (F / C)	Sal. (%)	TDS (g/L)	ORP (mv)	Color	Odor
1320	FIRST											
1341	[illegible]	[illegible]	9.02	1470	>1000		21.4					
1349	2.0		9.05	1470	>1000		21.6					
[illegible]	2.0		8.86	1460	192		22.0					
[illegible]	4.0		8.92	1460	102		22.1					
1405	5.0		8.84	1460	67		21.8					
1408	5.5		8.97	1460	4.5		21.9					
	STOP											

Sample No.	Sample Time	Analyses	Container	Quantity	NOTES:

ADDITIONAL INFORMATION:

TOC = Top of well casing

*Casing Volume = $r^2h(ft) \times 7.48$ gal/ft.^{3}

Well Diameter	0.75	2	4	6
Gallons/foot	0.02	0.16	0.65	1.47

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GROUNDWATER SAMPLING LOG

PROJECT NAME: Delphi-Anaheim
PROJECT NO.: 32486
DATE:

WELL NO. HA-MW-3S
SAMPLED BY:

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2		(inches)
DEPTH OF WELL			(ft.)
DEPTH TO WATER			(ft.)
HEIGHT OF WATER COLUMN			(ft.)
CASING VOLUME*	Hgt. x	Gal./Ft. =	(gal)
PURGE VOLUME		x 3 =	(gal)
PRODUCT THICKNESS			(ft.)

WELL CONDITION:
WEATHER CONDITIONS:
PURGING AND SAMPLING EQUIPMENT:

PURGE DATA

Time	Purge Vol (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (uS/cm or S/m	Turbidity (NTUs)	DO (mg/L)	Temp. (F / C)	Sal. (%)	TDS (g/L)	ORP (mv)	Color	Odor
1547	15	2.0	8.49	1510	21000		20.6					
1552	25	2.0	8.65	1430	289		21.0					
1557	35	"	8.68	1430	138		21.0					
1603	45	"	8.77	1430	23.9		21.3					
1610	55	"	8.78	1430	21.5		21.1					

Sample No.	Sample Time	Analyses	Container	Quantity	NOTES:

ADDITIONAL INFORMATION:
TOC = Top of well casing
*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

Well Diameter	0.75	2	4	6
Gallons/foot	0.02	0.16	0.65	1.47

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GROUNDWATER SAMPLING LOG

PROJECT NAME: Delphi-Anaheim
PROJECT NO.: 32486
DATE: 2-2-06

WELL NO. HA-MW- 8D
SAMPLED BY:

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2		(inches)
DEPTH OF WELL	77.2 – 77.5 FINAL		(ft.)
DEPTH TO WATER		25.24	(ft.)
HEIGHT OF WATER COLUMN		52.26	(ft.)
CASING VOLUME*	Hgt. x	Gal./Ft. = 8.3	(gal)
PURGE VOLUME		x 3 =	(gal)
PRODUCT THICKNESS	—		(ft.)

WELL CONDITION:
WEATHER CONDITIONS:
PURGING AND SAMPLING EQUIPMENT:

PURGE DATA

Time	Purge Vol (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (uS/cm or S/m	Turbidity (NTUs)	DO (mg/L)	Temp. (F (C)	Sal. (%)	TDS (g/L)	ORP (mv)	Color	Odor
1002	SURGE											
1035	BAIL											
1040	PUMP											
1050	10		9.45	2020			20.2					
1055	15		9.21	2010			21.5					
1056	DRY											
1120	SURGED		BAIL									
1140	STOP											

Sample No.	Sample Time	Analyses	Container	Quantity	NOTES:

ADDITIONAL INFORMATION:
TOC = Top of well casing
*Casing Volume = $r^2h(ft)$ x 7.48 gal/ft.^{3}

Well Diameter	0.75	2	4	6
Gallons/foot	0.02	0.16	0.65	1.47

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GROUNDWATER SAMPLING LOG

PROJECT NAME: Delphi-Anaheim
PROJECT NO.: 32486
DATE:

WELL NO. HA-MW-
SAMPLED BY:

WELL INFORMATION			
TOP OF CASING ELEV.			(ft.)
WELL DIAMETER	2		(inches)
DEPTH OF WELL			(ft.)
DEPTH TO WATER			(ft.)
HEIGHT OF WATER COLUMN			(ft.)
CASING VOLUME*	Hgt. x	Gal./Ft. =	(gal)
PURGE VOLUME		x 3 =	(gal)
PRODUCT THICKNESS			(ft.)

WELL CONDITION:
WEATHER CONDITIONS:
PURGING AND SAMPLING EQUIPMENT:

PURGE DATA

Time	Purge Vol (Gal.)	Flow Rate (Gal./Min.)	pH	Sp.Cond. (uS/cm or S/m	Turbidity (NTUs)	DO (mg/L)	Temp. (F / C)	Sal. (%)	TDS (g/L)	ORP (mv)	Color	Odor

Sample No.	Sample Time	Analyses	Container	Quantity	NOTES:

ADDITIONAL INFORMATION:
TOC = Top of well casing
*Casing Volume = r^2h(ft) x 7.48 gal/ft.^{3}

Well Diameter	0.75	2	4	6
Gallons/foot	0.02	0.16	0.65	1.47

DAILY WORK REPORT

TestAmerica DRILLING CORPORATION

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(619) 686-5800

TADC PROJECT NO.: 8350 DATE: 7-17-06 DAY: MON

JOB LOCATION: ANAHEIM CLIENT: HALEY + ALDRICH JOB#: 32486-004

HOURS START	HOURS STOP	DESCRIPTION OF WORK (Explain Reasons For All Down Time and Stand-By Time)	FOOTAGE DRILLED	DRILLING	OTHER CLEAN-UP DECON	STAND BY	NON CHARGEABLE DOWN TIME
813	830	TRAVEL TO JOB SITE			.2		
~~815~~	~~830~~	H&S MEETING					
830	1215	DEVELOP 2 WELLS			3.75		
1215	1230	TRAVEL FROM JOB SITE					
					.25		
TOTAL CHARGEABLE RIG HOURS				4.25			4.25

INTERNAL EQUIPMENT	NO.	RENTAL EQUIPMENT COMPANY	YES	OTHER	QTY.
RIG	5	BOBCAT:		CONCRETE SAW	
SUPPORT VEHICLE		FORKLIFT:		CONCRETE CORE	
DECON TRAILER	D-5	AIR VAC:		HYDRO PUNCH	
BOBCAT		COMPRESSOR:		CONTINUOUS SAMPLING	
FORKLIFT		JACK HAMMER:		SERVICE RUNS	
COMPRESSOR		TRAFFIC CONTROL:		MILEAGE ROUND TRIP	
JACK HAMMER		OTHER:			
OTHER:					

NAME	SIGNATURE	CONCRETE	SHOP HOURS AM	SHOP HOURS PM	DRILL HRS	TOTAL
BRUCE						

NO. OF CREW WITH CHARGEABLE PERDIEM		CHARGEABLE EXTRA LABOR HRS.	
DEPTH TO WATER		CHARGEABLE LEVEL B/C HRS.	

COMMENTS

MATERIALS/SUPPLIES ITEM	CODE	QTY.
SAND		
READY MIX	20020	
QUICK SET	20025	
PORTLAND	20015	
VOLCLAY GROUT	15035	
BENTONITE CHIPS	15010	
BENTONITE POWDER	15020	
BENTONITE PELLETS	15040	
ASPHALT PATCH	20005	
WELL COVERS 8"/12"		
MONUMENT CASING		
DRUMS	25005	~~4~~ 3
WOOD PLUGS		
SAMPLE RINGS		
CONES/DELINEATORS		
PLASTIC SHEETING	70070	
PVC 2" / 4" / 6"		
20 Ft. SCREEN		
10 Ft. SCREEN		
5 Ft. SCREEN		
20 Ft. BLANK		
10 Ft. BLANK		
5 Ft. BLANK		
PVC 2" / 4" / 6"		
SLIP CAP		
THREADED CAP		
LOCKING CAP		

____LABOR ____INV. ____OTHER
FOR INTERNAL USE ONLY

HALEY & ALDRICH

Well Development Record

MW-10

Project Name	Delphi	Date:	7-17-06
Project Location	1201 N. Magnolia	Weather:	Sun
Project Number	32486-024		95
Technician	G Andrisko	Page	1 of 1

Water Level Data (from top of casing)

Total Well Depth (TD)	44 (TD 43.08')	Casing Diameter (inches)	2
Static Water Level (DTW)	20.77	Screen Length (feet)	15
Standing Water Column (WC) (TD - DTW)	23.23	Borehole Diameter (inches)	8 1/2
		Date Installed	7-14-06

Well Purging Data

Purge Method	2" Submersible	(gpm)	
Well Volume (gallons) CD* (2" - 0.163, 2.5" - 0.255, 4" - 0.653, 6" - 1.469)	3.2	Pump Description	2" Grundfos
		Check Valve?	yes
Number of Volumes to be Purged	5		
Total Gallons to be Purged	20	Drilling Company	Test America

Surging and Bailing

Bail Start Time: 0851	Finish Time: 0854	Comments:	[illegible]
Surge Start Time: 0855	Finish Time: 0912	Comments:	
Bail Start Time: 0914	Finish Time: 0913	Comments:	[illegible]
Pump Start Time: 0940	Finish Time: 1000	Comments:	Pumped 50 gallons

Pumping Parameters

Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (SCm) enter units	pH (units)	Turbidity (NTUs)	Dis. Oxy. (mg/l)	ORP (mV)	Comments (color, odor, sheen)
0947	27.03	23	2	76.1	1,750	6.48	OR			muddy, no odor/sheen
0954	27.12	40	2	74.8	1780	6.80	260			
0957	27.17	46	2	77.3	1810	6.97	24			
0959	27.19	50	2	77.0	1850	7.02	14			clear, no odor
1003	[illegible]					300 ml/m				
	TD 43.08'									

QA/QC: ______

Date:

[illegible] as the water [illegible] 36' and [illegible] to collect [illegible] EPA [illegible]

HALEY & ALDRICH

Well Development Record

MW-11

Project Name	Delphi	Date:	7-17-06
Project Location	1201 N Magnolia Anaheim	Weather:	Sun 95°
Project Number	32486-004		
Technician	G. Ardvosko	Page	1 of 1

Water Level Data (from top of casing)

Total Well Depth (TD)	45 (TD 44.41)	Casing Diameter (inches)	2
Static Water Level (DTW)	21.70	Screen Length (feet)	15
Standing Water Column (WC) (TD - DTW)	23.30	Borehole Diameter (inches)	8 1/2
		Date Installed	7-14-06

Well Purging Data

Purge Method	Submersible pump	(gpm)	
Well Volume (gallons) CD* (2" - 0.163, 2.5" - 0.255, 4" - 0.653, 6" - 1.469)	3.8	Pump Description	2" Grundfos
		Check Valve?	yes
Number of Volumes to be Purged	5		
Total Gallons to be Purged	20	Drilling Company	Test America

Surging and Bailing

Surge Start Time: 1029	Finish Time: 1047	Comments:	
Bail Start Time: 1050	Finish Time: 1102	Comments:	Bailed 8 [illegible]
Pump Start Time: 1105	Finish Time: 1136	Comments:	Pumped 70 Gal
Start Time:	Finish Time:	Comments:	

Pumping Parameters

Time	Depth to Water (feet)	Volume (gallons)	Pumping Rate (gpm)	Temp (°C)	Spec. Cond. (uS/cm) enter units	pH (units)	Turbidity (NTUs)	Dis. Oxy. (mg/l)	ORP (mV)	Comments (color, odor, sheen)
1105	21.86	8	—	—	–	–	—	–	–	
1110	23.02	16	2	84.0	2460	7.10	OR			
1115	23.08	28	↓	83.3	2190	7.25	OR			
1120	23.00	[illegible]		82.7	2090	7.36	900			
1125	22.98	48		79.3	1890	7.4[illegible]	600			
1131	22.97	55		77.7	1790	7.47	85			
1136	22.96	62	↓	77.2	1810	7.47	27			
1140	Collected sample by lowering [illegible]									

QA/QC: ______

Date:

Started pumping from 1' off bottom Raised [illegible] clears lowered pump to 38' and sampled well when turbidity <10

MW-11-GW-071706-01

HALEY & ALDRICH

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FIELD WATER LEVEL AND PRODUCT THICKNESS MEASUREMENTS

Project Name: Delphi
Date: 2-3-06
Project No.: 3

Sampled By: CT, KH
Weather Sunny 50's
Equipment: Solinst 100 ft. Water Level Meter

Well Number	Time	Top of Casing Elevation (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Water Level Adjustment (0.80xTP)	Corrected Depth to Water (ft)	Groundwater Elevation (ft)
HA-MW-5	0727			25.32				
HA-MW-6	0736			24.49				
HA-MW-1	0740			24.99				
HA-MW-7	0749			25.09				
HA-MW-8	0752			25.20				
HA-MW-10	0754			25.03				
HA-MW-2	0805			25.41				
HA-MW-9	0807			26.35				
HA-MW-4	0821			26.90				
HA-MW-3	0827			28.11				

COMMENTS:

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LOW FLOW SAMPLING LOG

Location (Site/Facility Name): Delphi
Project #: 32486-004

Well ID: HA-MW-5
Date: 2-3-06
Job Number: ######## (illegible)
Start Time: 0913
Field Sampling Crew: C. Tsiatsios
Finished Time: 0948
K. Hogan
Sample Time: 0953

Initial Depth to Water: 25.35
Well Depth: 47.35
Depth to top of screen: 32.3
Depth to bottom of screen: 47.3
Depth of Pump Intake: 39

Purging Device: Low Flow Bladder
Tubing present in well (Y) N
Tubing Type: 1/4 inch Poly

Time	Depth to Water (from top of casing)	Pump Setting (ml/min or ~~gal/min~~)	Purge Rate (ml/min or ~~gal/min~~)	Cumulative Purge Volume (liters or ~~gallons~~)	pH	SIM Conductivity (~~units~~)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (degrees Celsius)	TDS (g/L)	ORP/eH (mv)	Comments
0918	25.35	240	240	1.2	6.9	0.197	201	2.08	21.7	1.3	87	
0923	25.36	↓	↓	2.4	7.02	0.197	193	0.64	21.73	1.3	69	
0928	25.35			3.6	7.07	0.197	145	0.46	22.01	1.3	53	
0933	25.35			4.8	7.09	0.197	122	0.43	22.13	1.3	42	
0938	25.36			5.0	7.11	0.198	82	0.38	22.08	1.3	32	
0943	25.35			6.2	7.12	0.198	61.2	0.35	22.09	1.3	26	
0948	25.35			7.4	7.13	0.198	49.9	0.34	22.07	1.3	18	

NA = Not applicable
NM = Not measured

Comments: EB_020306 @ 1010

HALEY & ALDRICH
500 South Kraemer Blvd., Suite 370
Brea, CA 92821

UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS
Tel: 714.985.3434
Fax: 714.985.3433

LOW FLOW SAMPLING LOG

Location (Site/Facility Name): Delphi Project #: 32486-004

Well ID: HA-MW-6 Date: 2-3-06
Job Number: 32486-004 Start Time: 10:35
Field Sampling Crew: C. Tsiatsios Finished Time: 11:10
K. Hogan Sample Time: 11:13

Initial Depth to Water: 24.49
Well Depth: 50.12
Depth to top of screen: 35.5
Depth to bottom of screen: 50.5
Depth of Pump Intake: 42

Purging Device: Low Flow Bladder
Tubing present in well? (Y) N
Tubing Type: 1/4 inch Poly

Time	Depth to Water (from top of casing)	Pump Setting (ml/min or ~~gal/min~~)	Purge Rate (ml/min or ~~gal/min~~)	Cumulative Purge Volume (liters ~~gallons~~)	pH	S/m Conductivity (~~us/cm~~)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (degrees Celsius)	TDS (g/L)	ORP/eH (mv)	Comments
1040	24.50	240	240	1.2	7.15	.159	116.0	3.01	21.63	1.0	55	
1045	24.50	↓	↓	2.4	7.14	.159	110.0	0.99	21.64	1.0	42	
1050	24.50			3.6	7.14	.159	118.0	0.67	21.63	1.0	32	
1055	24.50			4.8	7.15	.159	111.0	0.54	21.65	1.0	21	
1100	24.50			6.0	7.15	.159	106.0	0.45	21.64	1.0	13	
1105	24.50			7.2	7.16	.159	98.1	0.38	21.67	1.0	7	
1110	24.50			8.4	7.16	.159	78.0	0.37	21.67	1.0	2	

NA = Not applicable
NM = Not measured

Comments: Duplicate HA-MW-6-02 collected at 11:15

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LOW FLOW SAMPLING LOG

Location (Site/Facility Name): Delphi Project #: 32486-004

Well ID: HA-MW-7 Date: 2-3-06
Job Number: Start Time: 1155
Field Sampling Crew: C. Tsiatsios Finished Time: 1220
K. Hogan Sample Time: 1225

Initial Depth to Water: 25.05
Well Depth: 53.41
Depth to top of screen: 38.5
Depth to bottom of screen: 53.5
Depth of Pump Intake: ~~53.41~~ 45 KH

Purging Device: Low Flow Bladder
Tubing present in well? (Y) N
Tubing Type: 1/4 inch Poly

Time	Depth to Water (from top of casing)	Pump Setting (ml/min or gal/min)	Purge Rate (ml/min or gal/min)	Cumulative Purge Volume (liters or gallons)	pH	S/m Conductivity (us/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (degrees Celsius)	TDS (g/L)	ORP/eH (mv)	Comments
1200	25.06	240	240	1.2	7.05	0.158	136	1.43	21.36	1.0	42	
1205	25.05	↓	↓	2.4	7.05	0.158	130	0.80	21.41	1.0	24	
120	25.05			3.6	7.06	0.158	132	0.64	21.45	1.0	.13	
1215	25.05			4.8	7.06	0.159	114	0.53	21.45	1.0	.3	
1220	25.05	↓	↓	5.0	7.07	0.160	110	0.47	21.40	1.0	-6	

NA = Not applicable
NM = Not measured

Comments:

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LOW FLOW SAMPLING LOG

Location (Site/Facility Name): Delphi
Project #: 32486-004

Well ID: HA-MW-8
Date: 2-3-06
Job Number:
Field Sampling Crew: C. Tsiatsios, K. Hogan

Start Time: 1355
Finished Time: 1448
Sample Time: 1446

Initial Depth to Water: 25.13
Well Depth: 50.72
Depth to top of screen: 36
Depth to bottom of screen: 51
Depth of Pump Intake: 44

Purging Device: Low Flow Bladder
Tubing present in well? (Y) N
Tubing Type: 1/4 inch Poly

Time	Depth to Water (from top of casing)	Pump Setting (ml/min or ~~gal/min~~)	Purge Rate (ml/min or ~~gal/min~~)	Cumulative Purge Volume (liters or ~~gallons~~)	pH	Conductivity (us/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (degrees Celsius)	TDS (g/L)	ORP/eH (mv)	Comments
1405	25.13	300	300	1.5	7.26	.163	Err	3.94	20.98	1.0	71	air in the sample line →
1410	25.14	↓	↓	3.0	7.24	.160	Err	5.52	20.95	1.0	65	
1425	25.13			4.5	7.25	.160	Err	3.697	20.93	1.0	60	
1430	25.12			6.0	7.24	.160	Err	2.75	20.94	1.0	59	
1435	25.13			7.5	7.24	.159	Err	2.78	21.01	1.0	57	
1440	25.11			9.0	7.23	.160	Err	1.78	21.00	1.0	54	

NA = Not applicable
NM = Not measured

Comments: Turbidity error. Water was noticably brown silty, but at the end of purging, water cleared up.

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LOW FLOW SAMPLING LOG

Location (Site/Facility Name): Delphi
Project #: 32486-004

Well ID: HA-MW-8D
Date: 2-3-06
Job Number:
Start Time: 1507
Field Sampling Crew: C. Tsiatsios
Finished Time: 1541
K. Hogan
Sample Time: 1545

Initial Depth to Water: 25
Well Depth: 77.04
Depth to top of screen: 73.75
Depth to bottom of screen: 78.75
Depth of Pump Intake: 74.5

Purging Device: Low Flow Bladder
Tubing present in well? (Y) N
Tubing Type: 1/4 inch Poly

Time	Depth to Water (from top of casing)	Pump Setting (ml/min or gal/min)	Purge Rate (ml/min or gal/min)	Cumulative Purge Volume (liters or gallons)	pH	Conductivity (us/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (degrees Celsius)	TDS (g/L)	ORP/eH (mv)	Comments
1512	25.15	300	300	1.5	7.49	.213	Err	3.07	20.72	1.4	46	
1517	26.60	↓	↓	3.0	7.46	.212	620.0	1.09	20.65	1.4	31	
1522	26.60			4.5	7.49	.216	684.0	4.92	20.00	1.4	24	
1536	29.91			6.0	7.48	.213	565.0	4.28	20.78	1.4	16	
1541	30.87	↓	↓	7.5	7.48	.213	532.0	4.08	20.76	1.4	14	

NA = Not applicable
NM = Not measured

Comments:

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ENVIRONMENTAL
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LOW FLOW SAMPLING LOG

Location (Site/Facility Name): Delphi
Project #: 32480-604

Well ID: HA-MW-9
Date: 2-3-06 ########
Job Number:
Start Time: 1610
Field Sampling Crew: C. Tsiatsios
Finished Time: 1625
K. Hogan
Sample Time: 1630

Initial Depth to Water: 25.31
Well Depth: 55.11
Depth to top of screen: 40
Depth to bottom of screen: 55
Depth of Pump Intake: 47

Purging Device: Low Flow Bladder
Tubing present in well? (Y) N
Tubing Type: 1/4 inch Poly

Time	Depth to Water (from top of casing)	Pump Setting (ml/min or ~~gal/min~~)	Purge Rate (ml/min or ~~gal/min~~)	Cumulative Purge Volume (liters or ~~gallons~~)	pH	Conductivity (us/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (degrees Celsius)	TDS (g/L)	ORP/eH (mv)	Comments
1615	25.32	240	240	1.2	7.24	0.178	439	4.67	20.58	1.1	46	
1620	25.34	240	"	2.4	7.21	0.179	412	0.96	20.60	1.1	27	
1625	25.39	240	"	3.6	7.20	0.179	391	0.66	20.60	1.1	17	

NA = Not applicable
NM = Not measured

Comments:

MEMORANDUM

CITY OF ANAHEIM

DATE: October 6, 2006

TO: Glenn P. Androsko-Haley & Aldrich

FROM: Public Works-REAL PROPERTY DIVISION

SUBJECT: Encroachment License

Enclosed you will find a recorded copy of the Encroachment License for your file.

If you should have any questions, please feel free to contact the undersigned.

Sincerely,

Ron Pickett
714-765-5186

PLEASE COMPLETE THIS INFORMATION

RECORDING REQUESTED BY:
City of Anaheim

AND WHEN RECORDED MAIL TO:
City Clerk
City of Anaheim
P.O. Box 3222
Anaheim, CA 92803

EXEMPT – GOVERNMENT AGENCY Per Gov't Code 6103

This Document was electronically recorded by City of Anaheim

Recorded in Official Records, Orange County
Tom Daly, Clerk-Recorder

NO FEE
2006000652197 04:30pm 09/29/06
105 13 A12 6
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

THIS SPACE FOR RECORDER'S USE ONLY

TITLE OF DOCUMENT: **ENCROACHMENT LICENSE (ENC2006-00083)**

THIS PAGE ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION

ORIGINAL

ENCROACHMENT AGREEMENT

(ENC2006-00083)

THIS LICENSE is issued by the

CITY OF ANAHEIM, a chartered city and municipal corporation, hereinafter referred to as "ANAHEIM,"

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O

DELPHI AUTOMOTIVE SYSTEMS, LLC. a Delaware limited liability company, hereinafter referred to as "LICENSEE."

RECITALS

THIS LICENSE is granted by ANAHEIM in contemplation of the following recitals:

WHEREAS, ANAHEIM owns an easement, right-of-way, or fee title to that property described on Exhibit "A" attached hereto and incorporated herein by reference (hereinafter "PROPERTY"); and,

WHEREAS, LICENSEE wishes to utilize a certain portion of PROPERTY for the purposes particularly described in Exhibit "B" attached hereto and incorporated herein by reference (hereinafter "ENCROACHMENT"); and,

WHEREAS, LICENSEE is the owner in fee title of that certain real property described in Exhibit "C" attached hereto and incorporated by reference herein; and

WHEREAS, the proposed ENCROACHMENT, if properly installed, maintained and removed will not interfere with the present use of PROPERTY by ANAHEIM or the public generally.

NOW, THEREFORE, in consideration of the foregoing and in the exercise of ANAHEIM'S police power and its ownership powers in PROPERTY, the following LICENSE is granted subject to the following conditions.

1. LICENSEE does hereby represent that each of the representations set forth in the foregoing Recitals and LICENSEE'S application for this LICENSE is true.

2. ANAHEIM does hereby grant to LICENSEE a LICENSE, personal to the LICENSEE, to enter upon and use PROPERTY of ANAHEIM for the purpose of constructing and

OFFICE OF THE CITY ATTORNEY
CITY OF ANAHEIM
200 S. ANAHEIM BOULEVARD, SUITE 356
ANAHEIM, CALIFORNIA 92805
(714) 254-5180
FAX (714) 254-5123

maintaining ENCROACHMENT on that portion of PROPERTY in the manner and at the location herein described.

3. LICENSEE agrees that ENCROACHMENT shall be placed at the location designated in LICENSEE'S application, in strict accordance with specifications set forth in LICENSEE'S application, and in strict accordance with the conditions set forth in this LICENSE.

4. LICENSEE hereby agrees to, and does hereby, indemnify and hold ANAHEIM, its officers and employees harmless from any liability for any damage, claims, or injury of any kind to any person or property by reason of the placement of ENCROACHMENT by LICENSEE upon PROPERTY or any negligent acts by LICENSEE or others for whom LICENSEE is responsible, excluding therefrom only liability arising from the sole negligence of ANAHEIM. This indemnity shall survive the termination of this LICENSE.

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CITY OF ANAHEIM
200 S. ANAHEIM BOULEVARD, SUITE 356
ANAHEIM, CALIFORNIA 92805
(714) 254-5105
FAX (714) 254-5175

5. LICENSEE agrees to so maintain ENCROACHMENT so as not to cause any interference whatsoever with the use of PROPERTY by ANAHEIM and to maintain such clearances required by law or ordered by ANAHEIM from other ANAHEIM or other private or public utilities. LICENSEE agrees to comply with all applicable State and local laws in the installation, operation, maintenance and removal or destruction of ENCROACHMENT. LICENSEE shall remove said ENCROACHMENT upon termination of this license or discontinuance of the use of ANAHEIM property for the ENCROACHMENT.

6. ANAHEIM reserves the right to revoke all privileges granted by this LICENSE upon giving LICENSEE written notice of cancellation of this LICENSE; provided, however, ANAHEIM will endeavor to give thirty (30) days notice of cancellation when possible. Upon such written notice being given by ANAHEIM to LICENSEE, LICENSEE shall remove ENCROACHMENT from PROPERTY and restore PROPERTY to its unobstructed and pre-existing condition. LICENSEE hereby irrevocably grants to ANAHEIM the right to remove ENCROACHMENT at LICENSEE's expense in the event LICENSEE should fail to remove ENCROACHMENT as required herein.

///

7. LICENSEE agrees that the use of the portion of PROPERTY for

ENCROACHMENT will in no way create any right whatsoever in LICENSEE which is adverse to any rights of ANAHEIM or the public; that the rights of LICENSEE are the rights herein given by this LICENSE and no other rights whatsoever; that no contractual relationship is entered between the parties; and that LICENSEE'S rights are not coupled with any interest.

8. Any privilege conferred by this LICENSE is personal to the LICENSEE and is not assignable or transferable.

9. ANAHEIM may require LICENSEE to cause this LICENSE to be recorded in the Office of the County Recorder of the County of Orange; provided, however, that any such recordation shall serve only as notice to successors or assigns of LICENSEE of the limitations and burdens of the LICENSE and shall not extend the benefits of the LICENSE to any successors or assigns of LICENSEE.

10. LICENSEE acknowledges that this LICENSE, if granted by the Director of Public Works (Director), is granted subject to the limitations imposed in the Resolution of the City Council wherein the authority to issue such LICENSE is delegated to the Director.

11. LICENSEE shall provide to ANAHEIM a bond in an amount determined by the Director to be sufficient to guarantee LICENSEE's performance of all of LICENSEE's obligations under this LICENSE.

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12. Unless a different date is provided in this LICENSE, the effective date of this

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CITY OF ANAHEIM
200 S. ANAHEIM BOULEVARD, SUITE 356
ANAHEIM, CALIFORNIA 92805
(714) 254-5100
FAX (714) 254-5123

LICENSE shall be the Date of Acceptance by LICENSEE set forth below.

CITY OF ANAHEIM,
a municipal corporation

By _____
Director of Public Works/City Engineer

I hereby accept this License and agree to be bound by all of the terms and conditions of said License.

Date of Acceptance: 7/11, 2006

_____

DELPHI AUTOMOTIVE SYSTEMS, LLC

"LICENSEE"

BARBARA BURNSTEEL
NOTARY PUBLIC, STATE OF MI
COUNTY OF OAKLAND
MY COMMISSION EXPIRES Dec 15, 2010
ACTING IN COUNTY OF Oakland

Barbara Burnsteel, Notary

APPROVED AS TO FORM:

JACK L. WHITE, CITY ATTORNEY

By _____
Cristina L. Talley
Senior Assistant City Attorney

Date: 7/13/06

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ANAHEIM, CALIFORNIA 92805
(714) 254-5105
FAX (714) 254-5123

62304.3

EXHIBIT A

PROPERTY OF ANAHEIM

That certain right-of-way on North Knollwood Circle north of Woodland Drive and adjacent to 1240 and 1250 North Knollwood Circle.

EXHIBIT B

ENCROACHMENT

The installation of two (2) ground water monitoring wells identified as well sites MW-10 and MW-11 on the attached site plan. MW-10 and MW-11 will be 10' west of existing curb pursuant to street improvement plan No. 10969 and 10970.

The Licensee's encroachment shall maintain a minimum twelve (12) inch vertical separation and a minimum five (5) feet horizontal separation from existing facilities.

EXHIBIT C

PROPERTY OF LICENSEE

Parcel 1 in the City of Anaheim, County of Orange, State of California, as per map filed in book 50, page 21 of Parcel Maps, in the Office of the County Recorder of said County.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-1

Project: Former Anaheim Battery Operations 1201 N. Magnolia
Client: Delphi Corporation
Contractor: Test America

File No.: 32486
Sheet No.: 1 of 2
Start: August 11, 2005
Finish: August 11, 2005
Driller: Rob
H&A Rep.: C. Carrick
Elevation
Datum
Location
N -
E -

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	-	-	Rig Make & Model: -
Inside Diameter (in.)	-	-	-	Bit Type: -
Hammer Weight (lb.)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0								-CONCRETE-										
			14:30	0.5		0.3	SM	Loose, brown, silty fine SAND, dry to moist, no odor, no structure.					40	60				
				1.0														
		67.2					SM	Color change to dark brown, with trace CLAY										
5		59.2	14:35	4.5														
				5.0														
							SM	Light gray-brown, silty fine to medium SAND, moist.				10	30	60				
10	12			10.0														
	15	62.2		10.3		10.5	ML	Medium stiff, dark brown, SILT with some fine sand, moist, no odor, slight laminations.					20	80				
	17																	
		49.3					MH-CL	Grades into dark gray-brown and red-brown mottled silty CLAY, laminations, iron staining, lenses of light brown clay.						100				
15	9			15.0														
	10			15.3		15.5	SM	Dark gray-brown, silty fine SAND.										
	14																	
		1.7				18.0	SP	Dark gray-brown to tan, poorly graded, fine to coarse SAND, moist, no structure.										
20																		

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (lin. ft.)
Rock Cored (lin. ft.)
Samples

Boring No. HA-MW-1

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High
Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification and percentages based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

USCS_TB3 USCSLIB3NEW_SPTCOLUMN.GLB USCSTBC3.GDT G:\32486\GINT\32486_LOGS.GPJ Oct 28, 05

HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-1
File No. 32486
Sheet No. 2 of 2

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20	12			20.0														
	15			20.3		20.5	CL	3 inch layer of dark gray CLAY, moist, no odor.						100				
	17						SM	3 inch layer of dark gray silty fine SAND.					20	80			M	H
						20.8	CL	Dark gray CLAY, laminated, moist, no odor.						100				
						21.0												
						24.0												
25	29	10.0		25.0			SM	Dark gray-brown to brown, silty fine SAND, moist, no odor, no structure.					40	60				
	34			25.3														
	35																	
		4.9					ML	Gray to brown mottled SILT, moist, no odor, no structure.						100			L	L
	20			28.0														
	24			28.3		28.5	CL	Gray-brown CLAY, mottled with iron stain, moist, laminated, no odor.									H	H
	29																	
30		0.6					MH-CL	Dark brown SILT with gray CLAY lenses, moist, no odor, no structure.						100			L	M
	15			31.0														
	20			31.3														
	22																	
	23			33.5														
	25					34.0	SP	Brown to gray-brown, loose, poorly graded fine SAND with silt, wet, no odor, no structure, dark gray clay lense.					80	20				
35	35																	
	30			36.5														
	30							Fine to medium SAND.										
	40					37.5	SM-ML	Brown, medium stiff, SILT with sand to silty SAND, moist to wet.					50	50				
						39.0												
40							SP	Dark gray-brown, poorly graded fine to medium SAND, wet, no odor, no structure, occassional coarse grains.			10	30	50	10				
	29			40.5														
	31			40.8														
	37																	
	32			42.5														
	43																	
45	47																	
	24			45.5														
	30																	
	35																	
						47.0		Bottom of exploration at 47 feet.										

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. HA-MW-1

HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-2

Project: Former Anaheim Battery Operations 1201 N. Magnolia
Client: Delphi Corporation
Contractor: Test America

File No.: 32486
Sheet No.: 1 of 2
Start: August 15, 2005
Finish: August 15, 2005
Driller: Mike, Eric, Ian
H&A Rep.: TST/LK
Elevation
Datum
Location
N -
E -

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	NA	S	-	Rig Make & Model: Truck
Inside Diameter (in.)	-	1 1/2	-	Bit Type: -
Hammer Weight (lb.)	1	140	-	Drill Mud: None
Hammer Fall (in.)	-	30	-	Casing: Rotary HSA
				Hoist/Hammer: Cat-Head Safety Hammer

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		ND		0.0 0.3			SM	CONCRETE 0-5 feet hand augered. Medium dense, gray-brown, moist, silty SAND (SM), no odor.					75	25	R		L	L
		0.3				3.0	ML	At 3 feet medium, stiff, dark grayish brown, moist, SILT with sand (ML).					25	75				M
						4.0	SM	Medium dense, light brown, silty SAND (SM), moist, no odor.					70	30			N	L
5				5.0		5.0	ML	Stiff, dark brown, sandy SILT (ML), fine sand, no odor, moist.					45	55				
			12	6.5		5.5	SP	Dense, dark brown, poorly graded SAND (SP), trace medium sand, no odor, moist.					70	30				
				6.5			SP	Dense, poorly graded SAND (SP).					95	5				
			18	8.0		7.0	ML-CL	Stiff, dark brown, sandy SILT (ML), plastic, laminated.					10	90		M	M	M
						8.0	ML	Stiff, olive-brown, sandy SILT (ML), no odor, moist.					30	70				
10			18	9.5 11.0														
			15	11.0 12.5		11.5	SP-SM	At 11.5 feet, dense, red-gray, moist, fine, poorly graded SAND with silt (SP-SM).					80	20				
			12	12.5 14.0				Fine sand, no odor, moist.										
15			18	14.5 16.0			SP	At 15 feet, dense, red-gray, moist, fine, poorly graded SAND (SP), no odor.					100					
						17.5												
20		19.2		19.5			SP-	Poorly graded SAND with silt (SP-SM), fine sand, no odor, moist,					85	15				

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.)
Rock Cored (lin. ft.)
Samples

Boring No. HA-MW-2

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High
Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification and percentages based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-2
File No. 32486
Sheet No. 2 of 2

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20			18	21.0			SM	some mica minerals.										
		4	18	24.5 26.0				Same as above, 8 inches of black with sweet smell, moist.										
25						28.0												
			18	29.5 31.0			SP	Water at 29.3 feet. Dense, poorly graded SAND (SP), medium sand, no odor, wet to saturated, trace fines.				2	98					
30			18	31.0 32.5		31.5	CL	Stiff, olive-brown, sandy CLAY, fine sand, no odor, wet, weakly laminated, thin red mottled oxidation.					45	55				
			18	32.5 34.0		32.5	SP	Dense, brown, poorly graded SAND (SP), medium sand, no odor, wet.					100					
			18	34.0 35.5		34.0	ML	Stiff, olive-brown, sandy SILT (ML), fine sand, laminated, no odor, moist to wet, low plasticity, thin interbedded fine sand lenses.					40	60	N	M	L	L
35			14	35.5 37.0														
			2	37.0 38.5		37.0	SP	Dense, brown, poorly graded SAND (SP), medium sand, no odor, wet, trace coarse sand, trace fines.				10	90					
			18	38.5 40.0														
40						40.0		TD at 41 feet Screen 25-40 feet Surge and bar settle 1.5 feet 4 bags of sand 2 bags medium chips Top sand 24 18 bags well grout										

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. HA-MW-2

HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-3

Project: Former Anaheim Battery Operations 1201 N. Magnolia
Client: Delphi Corporation
Contractor: Test America

File No.: 32486
Sheet No.: 1 of 2
Start: August 11, 2005
Finish: August 11, 2005
Driller: Rob
H&A Rep.: C. Carrick
Elevation
Datum
Location
N -
E -

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	-	HSA	Rig Make & Model: Truck HSA
Inside Diameter (in.)	-	-	4 1/4	Bit Type: -
Hammer Weight (lb.)	-	-	-	Drill Mud: -
Hammer Fall (in.)	-	-	-	Casing: -
				Hoist/Hammer: - -

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				0.5		0.3	SP	ASPHALT Loose, brown, poorly graded fine to medium SAND with gravel, dry to moist, no odor.		20	10	20	30	20				
				3.0 4.0		3.0	SP	Coarse, gray-brown, poorly graded fine to medium, SAND with clay lenses (CH), moist, no structure, no odor.				10	70	20				
		5.5				4.0	SM	Medium dense, brown, silty fine SAND, moist, no odor, no structure, with trace gravel, micaceous		5			30	65				
5	7 7 8		9:07	5.5 5.8														
	12 13 18		9:10	7.0 7.3														
	12 13 15	2.5	9:15	8.5 8.8		8.5	ML	Stiff, gray-brown, SILT with very fine sand, micaceous, moist.										
10	11 12 15		9:19	10.0 10.3		9.5	SM											
15	10 11 15	7.6	9:25	14.8 15.0		15.0	MH-CL	Stiff, mottled gray-brown to brown SILT with some clay, moist, lamination, no odor.							100			
						17.0	SP	Loose, light yellow-brown to tan, poorly graded fine to coarse SAND, moist, no odor, no structure.					40	60				
20																		

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
8/11/2005	11:00				33.83

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.)
Rock Cored (lin. ft.)
Samples

Boring No. HA-MW-3

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High
Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification and percentages based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-3
File No. 32486
Sheet No. 2 of 2

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20	14	8.4	9:34	20.0		20.3	SM	Medium stiff, dark brown to dark gray-brown mottled, silty fine SAND, laminated, moist, no odor.					30	70				
	17			20.3														
	22																	
25	12	2.8	9:45	24.8		25.0	SP	Loose, light yellow-brown to tan, poorly graded fine to medium SAND, moist, no structure, no odor.				40	60					
	16			25.0														
	33																	
								Medium to coarse, possible perched zone.			60	20	20					
						29.0	MH-CL	Dark gray-brown and brown mottled SILT, laminated, no odor to clay, finely laminated.						100			M	H
30	12		10:00	29.8		30.0	ML-CL	Medium dense, dark brown to brown mottled, SILT with some fine sand, micaceous, moist to wet, high dry strength.					20	80				H
	15			30.0														
	20			30.5														
	11																	
	12																	
	14			32.0														
	12																	
	13																	
	15			33.5		33.5	CL	Dense, light gray-brown CLAY with silt, mottled, laminations, moist.						100				H
	9																	
	12																	
35	14					35.0	ML	Medium dense, dark brown to gray-brown, SILT with some fine SAND, micaceous, moist to wet.					40	60	R			M
	15		10:20	35.8														
	18			36.0														
	23			36.5														
	15																	
	18																	
	21			38.0														
	20																	
	24																	
	29			39.5														
40	21					40.0	MH-CL	Dense, dark gray-brown, SILT, high plasticity, laminated, moist, saturated.						100			H	
	29																	
	34																	
	25	2.5		41.0		41.0	SP	Loose, light gray-brown, poorly graded, fine to medium SAND, wet, no odor, some coarse grains.			5	45	50					
	30																	
	31																	
	23			42.5														
	32																	
	35																	
	32			44.0														
45	50/5					45.0		-Bottom of exploration at 45 feet.-										

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. HA-MW-3

HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-4

Project: Former Anaheim Battery Operations 1201 N. Magnolia
Client: Delphi Corporation
Contractor: Test America

File No.: 32486
Sheet No.: 1 of 2
Start: August 15, 2005
Finish: August 15, 2005
Driller: Mike, Eric, Ian
H&A Rep.: LK/JG
Elevation
Datum
Location
N -
E -

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	NA	-	-	Rig Make & Model: Truck
Inside Diameter (in.)	-	-	-	Bit Type: -
Hammer Weight (lb.)	1	140	-	Drill Mud: None
Hammer Fall (in.)	-	30	-	Casing: Rotary HSA
				Hoist/Hammer: Cat-Head Safety Hammer

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		ND				0.3	SM	-CONCRETE- -0-5 feet hand augered- Medium density, dark brown, silty SAND (SM), poorly sorted, no odor, moist.					80	20				
							SM	Dry soil.					50	50				
5				5.0 6.5			SP	Medium density, brown, SP poorly graded SAND, no odor, moist.					90	10				
				6.5 8.0		6.5	SM	Medium density, dark brown, silty SAND (SM), poorly sorted, no odor, moist.					80	20				
				8.0 9.5		7.5	ML	Medium density, sandy SILT, trace coarse SAND < 1%.					40	60				
10		ND		9.5 11.0														
15		ND		14.5 16.0			SP-SM	Low density, tan, (SP-SM), poorly graded SAND with silt, no odor, dry, trace coarse sand.				15	85				
20				19.5														

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.)
Rock Cored (lin. ft.)
Samples

Boring No. HA-MW-4

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High
Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification and percentages based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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TEST BORING REPORT

Boring No. HA-MW-4
File No. 32486
Sheet No. 2 of 2

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20				21.0			ML	Low density, sandy SILT (ML), olive-brown, no odor, moist, weakly laminated.				10	90		N	L	L	L
				23.0														
				24.5														
25				24.5														
				26.0			ML	Medium density, olive-brown, sandy SILT (ML), poorly sorted, no odor, moist, weakly laminated, with some clay.				20	80				M	L
				27.5								10	90				H	L
				27.5														
				29.0			SP	Low density, gray-brown, poorly graded SAND, no odor, moist.				90	10					
				29.0							10	90						
30				30.5				-No recovery-										
				32.0														
				33.5														
				33.5														
				35.0		34.0		Interbedding 1/2 inch SILT lense.										
35							SP	Low density, gray-brown, poorly graded SAND (SP-SM), no odor, wet.				10	90				L	L
				35.0														
				36.5		36.0	SM	SM auger.				50	35	15			L	L
				36.5														
				38.0			SP					10	90					
				38.0														
				39.5														
40																		
						41.0		-TD 41 feet.-										
								#212 Sand at 4 bags 0.014 slotted screen 18 gallons discharge Sand surge 1.5 feet 1.5 grout bags 35 gallon purge water										

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-5

Project: Former Anaheim Battery Operations 1201 N. Magnolia
Client: Delphi Corporation
Contractor: West Hazmat/Test America

File No.: 32486
Sheet No.: 1 of 2
Start: January 31, 2006
Finish: January 31, 2006
Driller: Doug
H&A Rep.: K. Hoggan/J. Reardon
Elevation
Datum
Location
N -
E -

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	S	HSA	Rig Make & Model: Truck - CME-75
Inside Diameter (in.)	-	1 3/8	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: None
Hammer Fall (in.)	-	30	-	Casing: Rotary HSA
				Hoist/Hammer: - -

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0		0.3	0810	0.0 4.0			SP	0-4 Hand Augered Loose, brown, silty SAND, fine grained, moist, no stain, no odor.										
			0825 60	4.0 9.0														
5						6.5	SP	Medium dense, brown, clayey SAND, fine grained, moist, no stain, no odor.										
			0836 32	9.0 14.0		9.0	SP	Loose yellow-brown SAND, fine grained, trace silt and clay, moist, no stain, no odor.										
10						10.0		Loose, gray brown, SAND, fine grained, trace silt and clay, moist, no stain, no odor.										
		0.6	0846 34	14.0 19.0														
15																		
		0.3	0852 36	19.0 24.0														
20																		

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.)
Rock Cored (lin. ft.)
Samples

Boring No. HA-MW-5

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High
Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification and percentages based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-5
File No. 32486
Sheet No. 2 of 2

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20						20.0	CL	Soft, sandy CLAY, fine grained, low plasticity, moist, no stain, no odor.										
		0.8	0855 32	24.0 29.0		24.5	SP	Loose, gray-brown to yellow-brown, SAND, fine to medium grained, moist, no stain, no odor.										
25																		
		0.4	0904 36	29.0 34.0		29.4		Medium dense, brown, clayey SAND, fine grained, moist, no stain, no odor.										
30						31.0		Stiff to very stiff, brown, sandy CLAY, fine grained, medium plasticity, moist, no stain, no odor.										
						31.5	SP	Medium dense, brown, SAND with silt, fine grained, moist, no stain, no odor.										
		1.4	0916 30	34.0 39.0		34.0		Medium dense, brown, SAND with silt, fine grained, wet, no stain, no odor.										
35						35.0		Soft, brown, clayey SILT, medium plasticity, wet, no stain, no odor.										
						36.0		Medium dense, brown, SAND, fine grained, wet, no stain, no odor.					95	5				
			0922 60	39.0 44.0		39.0	SP	Loose, light brown, SAND, fine to medium grained, wet, no stain, no odor.				65	35					
40																		
		0.3	0942 54	44.0 48.5			SP	Loose, light brown, SAND, fine to medium grained, wet, no stain, no odor.				70	30					
45								Bottom of exploration at 48.5 feet.										
								Samples taken at 10-10.5 feet, 20-20.5 feet, 30-30.5 feet.										
						48.5												

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. HA-MW-5

TEST BORING REPORT

Boring No. HA-MW-6

Project: Former Anaheim Battery Operations 1201 N. Magnolia
Client: Delphi Corporation
Contractor: West Hazmat/Test America

File No.: 32486
Sheet No.: 1 of 3
Start: January 31, 2006
Finish: January 31, 2006
Driller: Doug
H&A Rep.: K. Hoggan/J. Reardon
Elevation
Datum
Location
N -
E -

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	S	HSA	Rig Make & Model: Truck - CME-75
Inside Diameter (in.)	-	1 3/8	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: None
Hammer Fall (in.)	-	30	-	Casing: Rotary HSA
				Hoist/Hammer: - -

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0				0.0 4.0				Hand auger top 4 feet.										
		0.6	1216 60	4.0 9.0		4.0	SM	Medium dense, brown, silty SAND, fine grained, moist, no stain, no odor.					85	15				
5						6.5	CL	Stiff, brown silty CLAY with sand, fine grained, medium plasticity, moist, no stain, no odor.					10	95				
		0.6	1223 48	9.0 14.0		9.5	SM	Medium dense, brown, silty SAND with clay, fine grained, moist, no stain, no odor.					80	20				
10								Same as above, except yellow brown, no clay.										
			1229 54	14.0 19.0		15.0	ML	Medium dense, brown, SILT with sand, fine grained, low plasticity, moist, no stain, no odor.					10	90				
15		0.4				16.5	SP	Medium dense, brown, SAND with silt, fine grained, moist, no stain, no odor.					90	10				
			1316 36	19.0 24.0														
20																		

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.)
Rock Cored (lin. ft.)
Samples

Boring No. HA-MW-6

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High
Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification and percentages based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-6
File No. 32486
Sheet No. 2 of 3

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20							ML	4 inch silt lense.										
							SM	Medium dense, brown, SAND, fine grained, moist, no stain, no odor.					80	20				
		0.2	1321 36	24.0 29.0		24.0	SP	Medium dense, brown, SAND, fine grained, moist, no stain, no odor.					95	5				
25			1327 40	29.0 34.0				Same as above, except wet.										
		0.2				29.5	ML	Medium dense, brown, clayey SILT, low plasticity, wet, no stain, no odor.						100				
30						31.0	CL	Stiff, brown silty CLAY, medium plasticity, no stain, no odor.						100				
			1334 30	34.0 39.0		34.0	ML	Medium dense, brown SILT, wet, no stain, no odor.						100				
35						35.5	SP	Medium dense, brown to light brown, SAND, fine to medium grained, wet, no stain, no odor.				90	10					
			1345 30	39.0 44.0														
40							SP	Same as above.				90	10					
			1356 40	44.0 93.0														
45			1406	49.0														

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. HA-MW-6

HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-6
File No. 32486
Sheet No. 3 of 3

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50			25	52.0			SP											
						52.0		Bottom of exploration at 52 feet. Samples taken at 5-5.5 feet (HA-MW-6-05), 10-10.5 feet (HA-MW-6-10), 15-15.5 feet (HA-MW-6-15), 20-20.5 feet (HA-MW-6-20), 25-25.5 feet (HA-MW-6-25), 30-30.5 feet (HA-MW-6-30).									

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. HA-MW-6

HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-7

Project: Former Anaheim Battery Operations 1201 N. Magnolia
Client: Delphi Corporation
Contractor: West Hazmat/Test America

File No.: 32486
Sheet No.: 1 of 3
Start: February 1, 2006
Finish: February 1, 2006
Driller: Doug
H&A Rep.: K. Hoggan/J. Reardon
Elevation
Datum
Location
N -
E -

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	S	HSA	Rig Make & Model: Truck - CME-75
Inside Diameter (in.)	-	1 3/8	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: None
Hammer Fall (in.)	-	30	-	Casing: Rotary HSA
				Hoist/Hammer: - -

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0								No sampling to 20 feet below ground surface. See MW-8 boring logs for lithology.										
5																		
10																		
15																		
20			1453 4	19.0 24.0														

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.)
Rock Cored (lin. ft.)
Samples
Boring No. HA-MW-7

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High
Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification and percentages based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-7
File No. 32486
Sheet No. 2 of 3

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20						20.0	SP	Loose, light brown SAND, fine grained, moist, no stain, no odor.										
		0.6				22.0	CL	Clay seam, brown, medium plasticity, laminations, 1 inch thick.										
							SM	Medium dense, brown, silty SAND, fine grained moist, no stain, no odor.										
			1457 4	24.0 29.0														
25						25.0	SP	Water at 25.5 feet. Loose, brown, poorly graded SAND, fine grained, moist, no stain, no odor.										
		3.1				27.0	CL	Medium stiff, brown, CLAY, medium plasticity, moist, no stain, no odor.										
							ML	Soft, sandy SILT, sand fine grained, low dry strength, moist, no stain, no odor, coarsening downward.					35	65				
			1500 5	29.0 34.0			SM	Medium dense, brown, silty SAND, fine grained, moist, no stain, no odor.					60	40				
30		2.6				30.0	SP	Medium dense, brown, poorly graded SAND, fine grained, moist, no stain, no odor.					70	10				
			1505 2	34.0 39.0				Becomes wet and coarsens downward.										
35		1.1				35.5	ML/MH	Medium stiff, SILT, low to medium plasticity, wet, iron staining, no odor, laminations.				5	65	10				
			1512 5	39.0 44.0		39.0	SM	Brown, silty SAND, fine grained, wet, no staining, no odor, some laminations.										
40		0.9					ML	Medium stiff, brown, SILT, medium plasticity, wet, no stain, no odor, laminations, calcified nodules.										
							SP	Loose, brown, SAND, fine to medium grained, wet, no stain, no odor.										
			1518 2	44.0 49.0														
45																		
			1527	49.0														

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-7
File No. 32486
Sheet No. 3 of 3

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50			2	54.0			SP											
						54.0		Bottom of exploration at 54 feet below ground surface. Samples taken at 22-23 feet (HA-MW-7-22), 27-28 feet (HW-MW-7-27), 30-31 feet (HA-MW-7-30).									

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

Boring No. HA-MW-8

Project: Former Anaheim Battery Operations 1201 N. Magnolia
Client: Delphi Corporation
Contractor: West Hazmat/Test America

File No.: 32486
Sheet No.: 1 of 3
Start: February 2, 2006
Finish: February 2, 2006
Driller: Doug
H&A Rep.: K. Hoggan
Elevation
Datum
Location
N -
E -

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	S	HSA	Rig Make & Model: Truck - CME-75
Inside Diameter (in.)	-	1 3/8	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: None
Hammer Fall (in.)	-	30	-	Casing: Rotary HSA
				Hoist/Hammer: - -

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0								See HA-MW-8D for soil descriptions.										
5																		
10																		
15																		
20																		

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.)
Rock Cored (lin. ft.)
Samples

Boring No. HA-MW-8

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High
Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification and percentages based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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TEST BORING REPORT

Boring No. HA-MW-8
File No. 32486
Sheet No. 2 of 3

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20																		
25																		
30																		
35																		
40																		
45																		

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. HA-MW-8

HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-8
File No. 32486
Sheet No. 3 of 3

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50																		
						51.5		Bottom of exploration at 51.5 feet below ground surface.										

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. HA-MW-8

TEST BORING REPORT

Boring No. HA-MW-8D

Project: Former Anaheim Battery Operations 1201 N. Magnolia
Client: Delphi Corporation
Contractor: West Hazmat/Test America

File No.: 32486
Sheet No.: 1 of 4
Start: February 1, 2006
Finish: February 1, 2006
Driller: Doug
H&A Rep.: K. Hoggan/J. Reardon,(
Elevation
Datum
Location
N -
E -

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	S	HSA	Rig Make & Model: Truck - CME-75
Inside Diameter (in.)	-	1 3/8	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: None
Hammer Fall (in.)	-	30	-	Casing: Rotary HSA
				Hoist/Hammer: - -

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0			0745	0.0 4.0				Hand auger to 4 feet below ground surface.										
			0800 4	4.0 9.0		4.0	SM	Dense, dark brown, silty fine SAND with some clay, moist, no odor, no structure, with some calcified nodules.					60	40				
5		0.5				7.0	CL	Stiff, dark brown, CLAY, with some fine sand, medium plasticity, no odor, no structure.					20	80				
						8.0	SM	Dense, dark brown, silty fine SAND with some clay, moist, no odor, no structure, with some calcified nodules.										
		0.3	0805 3	9.0 14.0		9.0	SM	Loose, dark brown to brown, poorly graded SAND, fine grained, moist, no odor, color grades to light brown, slight biotite content.					80	20				
10																		
15			0810 2	14.0 19.0				No recovery.										
		0.3					SP	Loose, brown to light brown, poorly graded SAND, fine grained, moist, no stain, no odor.					80	20				
20			0815 3	19.0 24.0														

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (lin. ft.)
Rock Cored (lin. ft.)
Samples

Boring No. HA-MW-8D

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High
Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification and percentages based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-8D
File No. 32486
Sheet No. 2 of 4

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20						20.0		No recovery.										
							SM	Grey brown, silty SAND, very fine grained.										
							ML	Soft, dark brown, SILT with trace fine sand, moist, no odor, no stain, layering.										
		0.5				23.5	SP	Loose to slightly dense, tan to light brown, poorly graded SAND, fine grained, no odor, no stain, moist.					90	10				
			0820 2	24.0 29.0				No recovery. Water table.										
25							SP	At 28 feet coarsening downward, SAND.				30	60	10				
			0825 2.5	29.0 34.0				No recovery.										
30		0.6						At 32 feet SAND, fine to coarse grained, organic odor.			50	30	20					
						33.0	MH	Slightly stiff, dark gray, SILT, laminations, slight organic odor, moist, trace calcite nodules up to .25 inches in diameter, coarsening downward.					10	90				
			0830 2	34.0 39.0														
35						35.0	SP	Loose, brown, poorly graded SAND, medium to coarse grained, wet, no odor, no staining.										
			0835 3	39.0 44.0				Same as above.			60	40						
40							SP	Loose, brown to tan, poorly graded SAND, medium to coarse grained, wet, no odor, no stain.										
			0840 1	44.0 49.0				Same as above.										
45																		
			0845	49.0				No recovery.										

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. HA-MW-8D

HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-8D
File No. 32486
Sheet No. 3 of 4

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50			0.5	54.0														
			0920 0	54.0 59.0				No recovery.										
55																		
			0930 4	59.0 64.0			SP	Loose, brown to gray, poorly graded SAND, fine to medium grained, wet to moist, no odor, no stain, fining downward, sub-rounded grains.					90	10				
60						61.0	SP	Dark gray SAND, fine grained.										
			0940 4	64.0 69.0														
65								Loose, gray, poorly graded SAND, fine to coarse grained, coarsening downward, moist to wet, quartz and feldspar, sub-rounded, biotite fines.			10	40	35	15				
			0955 5	69.0 74.0			SP	Loose, gray to brown, poorly graded SAND, fine to coarse grained, very moist, no odor, no stain.			20	60	20					
70								Fining downward.				80	20					
								SAND, fine to medium grained, quartz grains, biotite fines.										
		1.3	1015 5	74.0 79.0			SP	Same as above, loose, brown, poorly graded SAND, fine to medium grained.				80	20					
75																		
		0.7				78.0	ML	Soft, dark gray, SILT with fine sand, moist, slight odor, no stain, laminations.					20	80				

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-8D
File No. 32486
Sheet No. 4 of 4

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
						79.0		Bottom of exploration at 79 feet below ground surface. Samples taken at 7-8 feet (HA-MW8-7), 17-18 feet (HA-MW8-17), 22-23 feet (HA-MW8-22), 32-33 feet (HA-MW8-32).										

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

Boring No. HA-MW-9

Project: Former Anaheim Battery Operations 1201 N. Magnolia
Client: Delphi Corporation
Contractor: West Hazmat/Test America

File No.: 32486
Sheet No.: 1 of 3
Start: February 2, 2006
Finish: February 2, 2006
Driller: Doug
H&A Rep.: K. Hoggan/J. Reardon
Elevation
Datum
Location
N -
E -

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	S	HSA	Rig Make & Model: Truck - CME-75
Inside Diameter (in.)	-	1 3/8	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: None
Hammer Fall (in.)	-	30	-	Casing: Rotary HSA
				Hoist/Hammer: - -

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0	5 5 5	0.4	0818 18	0.5 2.0			SM	Medium dense, dark brown, silty SAND, fine grained, no structure, moist, no stain, no odor.					80	20				
5	9 11 13	0.5	0825 18	4.5 6.0			SP	Medium dense, yellow brown, SAND, fine grained, moist, no stain, no odor, some structure at 5.5 feet, grades to darker brown.					90	10				
10	8 10 12	0.7	0828 18	9.5 11.0			SM	Medium dense, brown, silty SAND, fine grained, moist, no stain, no odor, no structure.					60	40				
15	9 9 11	0.5	0832 18	14.5 16.0		15.5	SP	Loose, light brown, SAND with silt, fine grained, moist, no stain, no odor, becomes medium brown, dark brown, coarsening downward.					90	10				
							ML	Soft, light brown, sandy SILT, moist, no stain, no odor.					45	65				
20	9	0.2	0848	19.5			SM	Medium dense, light brown, silty SAND, fine grained, coarsening					60	40				

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.)
Rock Cored (lin. ft.)
Samples

Boring No. HA-MW-9

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High
Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification and percentages based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. HA-MW-9
File No. 32486
Sheet No. 2 of 3

Depth (ft.)	SPT*	PID (ppm)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20	10 12		18	21.0				downward, moist, no stain, no odor.										
25	9 9 10	0.5	0853 18	24.5 26.0			SP	Medium dense to dense, brown, SAND, fine grained, moist, no stain, no odor.					90	10				
30	9 10 10	1.2	0856 18	29.5 31.0		30.0	CL SP	Medium stiff, brown, CLAY, medium plasticity, moist, iron staining, no odor. Loose, brown, SAND, fine grained, wet, no stain, no odor.						100				
35	10 11 12	1.2	0859 18	34.5 36.0		35.0		Soft, brown, silty CLAY, medium plasticity, wet, no stain, no odor, no structure. Medium dense, brown, SAND, fine grained, wet, no stain, no odor, no structure.						100				
40	7 8 9		0905 18	39.5 41.0				Loose, brown to light brown, SAND, fine to medium grained, wet, no stain, no odor.				30	60	10				
45	9 10 12		0910 18	44.5 46.0				Same as above, except coarsening downward.				60	40					

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.